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# IN THE CLAIMS

Claim 1 (amended): An isolated DNA coding for *MseI* restriction endonuclease, wherein the isolated DNA is obtainable from ~~*Micrococcus* species NEB#446~~ ATCC No. PTA-2421.

Claim 2 (amended): A recombinant DNA vector comprising ~~a cloning vector into which a~~ the isolated DNA segment of claim 1, ~~coding for an *MseI* restriction endonuclease, wherein the DNA segment is as been inserted.~~

Claim 3 (amended): An isolated DNA coding for *MseI* restriction endonuclease and methylase, wherein the isolated DNA is obtainable from ATCC No. PTA-2421.

Claim 4 (amended): A recombinant DNA ~~cloning~~ vector which comprises the isolated DNA of claim 3.

Claim 5 (amended): A host cell transformed by the ~~cloning~~ vector of claim 2 or 4.

Claim 6 (original): A method of producing the *MseI* restriction endonuclease comprising, culturing a host cell transformed with the vector of claim 2 or 4 under conditions suitable for expression of said endonuclease.

Claims 7-15 (cancelled)